

## Assignment 7

Textbook Assignment: "Radiological Effects and Countermeasures, Biological and Chemical Agents, and CBR Defense," pages 8-12 through 10-10.

Learning Objective: (Cent'd) Explain the uses and operating characteristic of radiological detection devices.

IN ANSWERING QUESTIONS 7-1 THROUGH 7-3, SELECT FROM COLUMN B THE FUNCTION OF THE RADIAC MONITORING INSTRUMENT IN COLUMN A. NOT EVERY RESPONSE IN COLUMN B IS USED.

A. Radiac Monitoring Instruments	B. Functions
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|----------------|--|
| 7-1. AN/PDR-56 | 1. Detects low intensity gamma and beta radiation      |
| 7-2. AN/PDR-43 | 2. Measures the intensity of alpha particles           |
| 7-3. AN/PDR-27 | 3. Measures intensity of gamma radiation from DT-60/PD |
|                | 4. Detects high intensity gamma radiation              |

7-4. The AN/PDR-65 detects which of the following types of radiation?

1. Alpha
2. Beta
3. Gamma
4. Neutron

7-5. Which of the following radiation detectors is nonportable?

1. AN/PDR-27
2. AN/PDR-43
3. AN/PDR-65
4. IM-/PD

7-6. What is the minimum to maximum usable dose range of the DT60/PD?

1. 3 R to 150 R
2. 5 R to 300 R
3. 7 R to 450 R
4. 10 R to 600 R

7-7. Which of the following personnel dosimeters is NOT self-reading?

1. IM-9/PD
2. IM-143/PD
3. DT-60/PD
4. IM-107/PD

7-8. If ship's power fails, the AN/PDR-65 can operate on batteries for about what period of time?

1. 20 hr
2. 30 hr
3. 50 hr
4. 75 hr

7-9. The radiac computer-indicator CP-95A/PD must be used to read the total amount of gamma radiation absorbed by a DT-60/PD.

1. True
2. False

7-10. What is the minimum to maximum detectable dose range of the IM-9/PD dosimeter?

1. 0 to 200 mR
2. 0 to 600 mR
3. 10 to 200 mR
4. 10 to 600 mR

- 7-11. Which of the following radiac instruments is placed on or near the bridge as a fixed radiological device?
1. AN/PDR-272
  2. AN/PDR-65
  3. AN/PDR-43
  4. AN/PDR-56
- 7-12. Radiac instruments are capable of detecting and measuring alpha, beta, gamma, and neutron radiation simultaneously.
1. True
  2. False
- 7-13. What dosimeter keeps a permanent record of radiation exposure?
1. AN/PDR-65
  2. IM-9/PD
  3. DT-60/PD
  4. PP-4276A/PD
- 7-14. Shore-based radiac equipment should be checked for operational readiness how often?
1. Weekly
  2. Monthly
  3. Biweekly
  4. Annually
- 7-15. You are onboard ship and suspect an AN/PDR-43 is malfunctioning. Which of the following actions should you take?
1. Change the batteries only
  2. Place an out-of-calibration label on it
  3. Change the batteries and if the malfunction persists, send it to a shore-based repair activity
  4. Let the ship board electricians repair
- 7-16. What type of radiation detector requires the greatest care in handling?
1. Alpha
  2. Beta
  3. Gamma
  4. Neutron
- 7-17. To protect a gamma radiation detector from becoming-contaminated during use, you should take which of the following precautions?
1. Wear gloves
  2. Thoroughly wash the radiac after each use
  3. Use high-pressure air to decontaminate the radiac after each reading
  4. Cover the instrument with a plastic bag
- 7-18. What radiacs can be protected from contamination by a layer of thin plastic film such as "Mylar"?
1. Alpha
  2. Beta
  3. Gamma
  4. All of the above
- 7-19. If a monitoring team uses a minimum number of monitoring points that will give a good sample of the condition of vital stations, they should be able to complete the survey in about how much time?
1. 5 min
  2. 10 min
  3. 15 min
  4. 20 min
- 7-20. A shipboard or shipyard monitoring team consists of how many personnel?
1. 7
  2. 2
  3. 10
  4. 4
- 7-21. What is the designed accuracy reading of radiac instruments?
1.  $\pm 10$  percent
  2.  $\pm 10$  rads
  3.  $\pm 20$  rads
  4.  $\pm 20$  percent
- 7-22. For each reading taken during a detailed monitoring survey, what maximum time is generally allowed for the meter to reach maximum deflection?
1. 3 to 4 sec
  2. 4 to 5 sec
  3. 6 to 8 sec
  4. 8 to 10 sec
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- Learning Objective: Recognize the purposes of radiological monitoring, and surveying equipment, and various monitoring techniques.
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7-23. When fallout is imminent, readings of open-bridge or gamma intensity should be recorded at LEAST how often?

1. Every 2 to 3 min
2. Every 5 to 10 min
3. Every 15 to 20 min
4. Every 30 to 40 min

7-24. A ship's rapid exterior gamma radiation survey is NOT conducted for which of the following reasons?

1. To evaluate the radiological situation at exposed action stations
2. To locate deck areas in need of decontamination
3. To test the effectiveness of personnel decontamination stations
4. To determine the effectiveness of a decontamination pass

7-25. Dosimeters located at monitoring points in deep shelter and at vital topside and below-deck spaces are used to determine the total exposure of what type of initial, transit, and deposited radiations?

1. Alpha
2. Beta
3. Gamma
4. Neutron

7-26. On a small ship going through overhaul, monitoring points should be how far apart?

1. 6 ft
2. 12 ft
3. 25 ft
4. 50 ft

7-27. You are monitoring the spread of air-radiation. The air sampler should be placed at what height?

1. At deck level
2. About waist level
3. Approximately 5 feet about the deck
4. In the compartment overhead

7-28. After an area has been decontaminated and monitored, who should post the intensity level and safe stay time in the area?

1. The commanding officer
2. The damage control officer
3. The monitoring team
4. The operations officer

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Learning Objective: Describe the types of biological warfare (BW) and chemical warfare (CW) agents.

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7-29. Detailed information on biological warfare (BW) and chemical warfare (CW) agents can be found in what chapter of the Naval Ships' Technical Manual?

1. 340
2. 3220
3. 470
4. 2840

7-30. BW and CW agents are different in which of the following ways?

1. Their effect on the human body
2. The medical treatment required
3. The speed of action
4. All of the above

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Learning Objective: Explain conditions that affect the movement of BW and CW agents throughout a ship on convoy.

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7-31. BW and CW agents are most effective in which of the following weather conditions?

1. Light rain
2. Dusty winds
3. Light winds
4. Snow

7-32. BW and CW agents are most effective in which of the following atmospheric conditions?

1. A temperature inversion
2. A cold air mass
3. An increasing gradient
4. A decreasing gradient

7-33. What is the average rate of change in ventilation of a space where little heat is generated?

1. 3 min
2. 10 min
3. 20 min
4. 30 min

7-34. When a ship is in a contaminated zone, which of the following number of air changes is most favorable?

1. One
2. Six
3. Three
4. Eight

7-35. Your ship has just left a contaminated zone. You should go to maximum ventilation of spaces for about how many air changes?

1. 2 to 4
2. 4 to 6
3. 6 to 12
4. 12 to 20

7-36. If ventilation rates must be increased at some time during the 24 hour day, what is the safest period from the BW point of view?

1. Late afternoon to after sunrise
2. Midmorning to midafternoon
3. Morning to an hour or two after sunrise
4. Late afternoon, dusk, darkness, and for an hour or two after sunrise

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Learning Objective: Identify the different types and uses of biological warfare agents.

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7-37. What micro-organism causes typhus?

1. Protozoa
2. Fungi
3. Rickettsiae
4. Virus

7-38. What micro-organism generally causes the LEAST severe disease?

1. Fungi
2. Bacteria
3. Virus
4. Protozoa

7-39. BW agents may be used for which of the following strategic or tactical goals?

1. Brief illness
2. Crippling disease
3. Widespread death
4. All of the above

7-40. The identification of SW agents is generally a responsibility of which of the following personnel?

1. Damage controlmen
2. Medical personnel
3. BW specialists
4. Damage control officers

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Learning Objective: Identify the characteristics and effects of chemical warfare agents.

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7-41. Chemical agents are NOT designed to produce which of the following effects?

1. Disorganization of body functions
2. Burning of materials
3. Corrosion of materials
4. Diseases

- A. NERVE AGENTS
  - B. BLISTER AGENTS
  - C. BLOOD AGENTS
  - D. CHOKING AGENTS
  - E. VOMITING AGENTS
  - F. TEAR AGENTS
  - G. INCAPACITATING AGENTS
  - H. TOXINS
  - I. INCENDIARIES

FIGURE 7-A

IN ANSWERING QUESTIONS 7-42 THROUGH 7-50, REFER TO FIGURE 7-A.

7-42. Nitrogen mustard HN2 is an example of which CW agent?

1. A
2. B
3. C
4. D

7-43. Chlorine is an example of which CW agent?

1. B
2. D
3. F
4. G

7-44. Hydrogen cyanide is an example of which CW agent?

1. C
2. E
3. H
4. I

7-45. Which CW agent affects the eyes and upper respiratory tract?

1. D
2. F
3. G
4. H

7-46. Which CW agent works by disturbing the chemical processes of the nervous system and stopping bodily functions?

1. A
2. C
3. D
4. E

7-47. Which CW agent allows a victim that does not die quickly to recover within a few hours?

1. B
2. C
3. D
4. H

7-48. Phosgene (CG) and diphosgene (DP) are examples of which CW agents?

1. A
2. C
3. D
4. H

7-49. Strict sanitary measures and medical inspection of drugs and food is the best way to protect against which CW agents?

1. A
2. C
3. G
4. H

7-50. Which CW agents are designed to wage war without massive killing?

1. B
2. D
3. G
4. H

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Learning Objective: Describe the equipment and materials used to detect CW agents.

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- A. M-8 PAPER
  - B. M-9 PAPER
  - C. M256 KIT
  - D. M18A2 KIT
  - E. CWDD
  - F. CAPDS

FIGURE 7-B

7-51. Which detector uses sensitized paper to check for liquid nerve agents G AND V and blister agents H and L?

1. A
2. B
3. C
4. D

7-52. Which detector uses sensitized paper that turns yellow when exposed to a GB nerve agent?

1. A
2. C
3. D
4. F

7-53. Which detector is used to check for concentrations of toxic CW agents in the air and on surfaces?

1. C
2. D
3. E
4. F

7-54. Which detector may be used to check for chemical agents in vapor or liquid form?

1. A
2. B
3. C
4. F

7-55. Which detector uses infrared sensing to identify a CW attack?

1. B
2. D
3. E
4. F

7-56. Which detector is used for automatic continuous sampling of the outside air and warns of CW agents by actuating the ship's alarm system?

1. C
2. D
3. E
4. F

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Learning Objective: Recognize the purposes of the CBR defense system, equipment used, and countermeasures taken to protect shipboard personnel in the event of an attack.

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IN ANSWERING QUESTIONS 7-51 THROUGH 7-56, REFER TO THE CW DETECTORS IN FIGURE 7-B.

- 7-57. The general emergency bill replaces which of the following shipboard watch quarter and station bill(s)?
1. The rescue and assistance bill
  2. The collision bill (only)
  3. The abandon ship bill (only)
  4. Both 2 and 3 above
- 7-58. The chemical, biological and radiological bill is the responsibility of which of the following personnel?
1. The type commander
  2. The commanding officer
  3. The engineering officer
  4. The damage control officer
- 7-59. The M-258-A1 decontamination kit is used for which of the following CBR exposures?
1. Liquid nerve or blister agents
  2. Nerve gas and phosphorus burns
  3. Blood agents or radiation burns
  4. Biological and radiological contamination
- 7-60. You used an M258A1 decon kit at 1030 and you experience some upper chest sweating at approximately 1100. You should take which of the following medications?
1. Aspirin
  2. A shot of atropine
  3. A 2-pam-chloride injection
  4. Both 2 and 3 above
- 7-61. You may administer what maximum number of atropine injections to yourself without medical personnel supervision?
1. One
  2. Two
  3. Three
  4. Four
- 7-62. Which of the following agents requires qualified medical attention immediately?
1. Blood agents
  2. Nerve agents
  3. Blister agents
  4. Choking agents
- 7-63. Each contamination control area should be supplied with how many M258A1 decon kits?
1. Fifteen
  2. Twenty
  3. Thirty
  4. Forty
- 7-64. What NSTM chapter gives detailed information for mission oriented protective posture (MOPP) procedures?
1. 410
  2. 470
  3. 521
  4. 570
- 7-65. Before removing your protective gas mask. You should always take which of the following precautions?
1. Loosen lower straps only
  2. Wash the exterior of the mask
  3. Test for sufficient oxygen
  4. Test for harmful gases
- 7-66. What is the original shelf life of the CBR protective suit?
1. 5 yr
  2. 2 yr
  3. 7 yr
  4. 4 yr
- 7-67. After you break the seal on a CBR protective suit packet, how long can an uncontaminated suit be stored and remain effective?
1. 5 days
  2. 14 days
  3. 20 days
  4. 31 days
- 7-68. How long do CBR protective suits provide continuous protection within a chemical contaminated environment?
1. 1 hr
  2. 6 hr
  3. 12 hr
  4. 24 hr
- 7-69. What is the objective of radiological decontamination?
1. To neutralize the contamination
  2. To destroy the contamination
  3. To control the location of contamination
  4. To identify the type of contamination
- 7-70. What chemical compound is generally used aboard ships to decontaminate biological agents?
1. Calcium carbonate
  2. Formaldehyde
  3. Calcium hypochlorite
  4. Citric acid

7-71. After a chemical attack, which of the following methods of decontamination is commonly used?

1. Natural weathering
2. Heat
3. Physical removal
4. Chemical action

7-72. Which of the following chemical agents should NEVER be decontaminated by the heat or water wash down methods?

1. Lewisite
2. Blister agents
3. Nerve agents
4. G-agents

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1. The following comments are hereby submitted:

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